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[redacted]

Copy 4 of 5

4 January 1956

MEMORANDUM FOR THE RECORD

SUBJECT: Meeting with General Precision Laboratory Regarding Project Interest in Radan

1. Time and Place of Meeting:

25X1 The meeting was held on 3 January 1956 in the office of [redacted] General Precision Laboratory, Pleasantville, New York.

2. Attendance:

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[redacted]

GPL
"
"
"

Project Staff
" "
" "

3. Discussion:

a. Mr. Bissell introduced himself as a special assistant to 25X1 [redacted] as ARDC personnel assigned to his office for work on this special project. No indication of Agency interest was given during any of the discussions that followed.

25X1 [redacted] was given a mailing address (c/o [redacted] office, 25X1 Attention: Colonel Berg), and a telephone number [redacted] 25X1 Extension [redacted]

b. Mr. Bissell outlined the Project requirements with regard to the need for a "ground speed-drift angle" input for the AN/APQ-56 and a mission navigation system. While the latter was mentioned, it was not discussed to any degree.

25X1 c. [redacted] proceeded to outline the position of GPL in the field of air navigation. He reviewed the GPL-built AN/APN-81, 89, 66, 82 and 96 with regard to function, weight, and production status. This material was used as background for the Radan discussion which followed.

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d. [redacted] continued by describing the Radan system in some detail. The system is composed of an antenna-receiver-transmitter unit (ART, a frequency tracker, an instrument panel indicator and a control panel. The system is capable of giving readings of ground speed and drift angle with respective accuracies of +1.5 % and +0.5 %. The weights involved in the various units are: ART - 45 lbs; frequency tracker - 35 lbs; indicator - 2 lbs; control panel - 1 lb; cabling - 5 to 10 lbs. This totals 88 to 93 lbs. The Radan power requirements are 1 ampere @ 28 volts, dc, and 400 watts (500 VA) @ 380 - 420 cps. No pressurization is required for the ART unit. Other units must be mounted in cabin area. Cooling air is required for the ART and frequency tracker units. The system is designed to function over temperature ranges of -40° C to +55° C and at altitudes of 100 to 70,000 feet. It operates at a frequency of 8800 mc/s. Production prototypes (6) are due to be finished in June-July 1956 with production models (30) to follow.

e. In discussing the tie-in with the APQ-56, it was stated that the outputs from the Radan system occur as shaft or synchro rotations at the instrument panel indicator. Ground speed is presented as a shaft rotation of 36°/100,000 fpm (standard for ASN-6 GPI input) and drift angle is presented by synchro rotation of 1°/degree. Both of these outputs are felt to be compatible with APQ-56 requirements.

4. Action:

a. GPL is to consider its position regarding the submission of a proposal to produce the Radan system for the Project.

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b. Mr. Bissell, [redacted] are to consider the Project's position on the same basis.

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c. [redacted] is to contact [redacted] on Friday to discuss the outcome of the two meetings.

d. Colonel Berg's office is to be notified of the mail channel and provide the necessary back up.

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Distribution:
1 - EQUINE Master
2 - EQUINE Service
3 - Mr. R.M. Bissell
~~4~~ - Chrono
5 - Reading

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